

#3



SEQUENCE LISTING

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<120> CHIMERIC G PROTEIN COUPLED RECEPTORS

<130> 10602-013-999

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<160> 38

<170> PatentIn version 3.1

<210> 1

<211> 382

<212> PRT

<213> Homo sapiens

<400> 1

Met	Gly	Pro	Thr	Ser	Val	Pro	Leu	Val	Lys	Ala	His	Arg	Ser	Ser	Val
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Ser	Asp	Tyr	Val	Asn	Tyr	Asp	Ile	Ile	Val	Arg	His	Tyr	Asn	Tyr	Thr
							20		25						30
Gly	Lys	Leu	Asn	Ile	Ser	Ala	Asp	Lys	Glu	Asn	Ser	Ile	Lys	Leu	Thr
							35		40						45
Ser	Val	Val	Phe	Ile	Leu	Ile	Cys	Cys	Phe	Ile	Ile	Leu	Glu	Asn	Ile
							50		55						60
Phe	Val	Leu	Leu	Thr	Ile	Trp	Lys	Thr	Lys	Lys	Phe	His	Arg	Pro	Met
							65		70		75				80
Tyr	Tyr	Phe	Ile	Gly	Asn	Leu	Ala	Leu	Ser	Asp	Leu	Leu	Ala	Gly	Val
							85		90						95
Ala	Tyr	Thr	Ala	Asn	Leu	Leu	Leu	Ser	Gly	Ala	Thr	Thr	Tyr	Lys	Leu
							100		105						110
Thr	Pro	Ala	Gln	Trp	Phe	Leu	Arg	Glu	Gly	Ser	Met	Phe	Val	Ala	Leu
							115		120						125
Ser	Ala	Ser	Val	Phe	Ser	Leu	Leu	Ala	Ile	Ala	Ile	Glu	Arg	Tyr	Ile
							130		135						140
Thr	Met	Leu	Lys	Met	Lys	Leu	His	Asn	Gly	Ser	Asn	Asn	Phe	Arg	Leu
							145		150						160
Phe	Leu	Leu	Ile	Ser	Ala	Cys	Trp	Val	Ile	Ser	Leu	Ile	Leu	Gly	Gly
							165		170						175
Leu	Pro	Ile	Met	Gly	Trp	Asn	Cys	Ile	Ser	Ala	Leu	Ser	Ser	Cys	Ser
							180		185						190
Thr	Val	Leu	Pro	Leu	Tyr	His	Lys	His	Tyr	Ile	Leu	Phe	Cys	Thr	Thr
							195		200						205
Val	Phe	Thr	Leu	Leu	Leu	Leu	Ser	Ile	Val	Ile	Leu	Tyr	Cys	Arg	Ile
							210		215						220
Tyr	Ser	Leu	Val	Arg	Thr	Arg	Ser	Arg	Arg	Leu	Thr	Phe	Arg	Lys	Asn
							225		230			235			240
Ile	Ser	Lys	Ala	Ser	Arg	Ser	Ser	Glu	Lys	Ser	Leu	Ala	Leu	Lys	
							245		250			250			255
Thr	Val	Ile	Ile	Val	Leu	Ser	Val	Phe	Ile	Ala	Cys	Trp	Ala	Pro	Leu
							260		265						270

Phe	Ile	Leu	Leu	Leu	Leu	Asp	Val	Gly	Cys	Lys	Val	Lys	Thr	Cys	Asp
275						280						285			
Ile	Leu	Phe	Arg	Ala	Glu	Tyr	Phe	Leu	Val	Leu	Ala	Val	Leu	Asn	Ser
290						295					300				
Gly	Thr	Asn	Pro	Ile	Ile	Tyr	Thr	Leu	Thr	Asn	Lys	Glu	Met	Arg	Arg
305						310				315				320	
Ala	Phe	Ile	Arg	Ile	Met	Ser	Cys	Cys	Lys	Cys	Pro	Ser	Gly	Asp	Ser
						325			330				335		
Ala	Gly	Lys	Phe	Lys	Arg	Pro	Ile	Ile	Ala	Gly	Met	Glu	Phe	Ser	Arg
						340			345			350			
Ser	Lys	Ser	Asp	Asn	Ser	Ser	His	Pro	Gln	Lys	Asp	Glu	Gly	Asp	Asn
						355			360			365			
Pro	Glu	Thr	Ile	Met	Ser	Ser	Gly	Asn	Val	Asn	Ser	Ser	Ser	Ser	
						370			375			380			

<210> 2

<211> 378

<212> PRT

<213> Homo sapiens

<400> 2

Met	Ala	Thr	Ala	Leu	Pro	Pro	Arg	Leu	Gln	Pro	Val	Arg	Gly	Asn	Glu
1					5				10				15		
Thr	Leu	Arg	Glu	His	Tyr	Gln	Tyr	Val	Gly	Lys	Leu	Ala	Gly	Arg	Leu
					20				25				30		
Lys	Glu	Ala	Ser	Glu	Gly	Ser	Thr	Leu	Thr	Thr	Val	Leu	Phe	Leu	Val
					35				40				45		
Ile	Cys	Ser	Phe	Ile	Val	Leu	Glu	Asn	Leu	Met	Val	Leu	Ile	Ala	Ile
					50				55			60			
Trp	Lys	Asn	Asn	Lys	Phe	His	Asn	Arg	Met	Tyr	Phe	Phe	Ile	Gly	Asn
					65				70			75			80
Leu	Ala	Leu	Cys	Asp	Leu	Leu	Ala	Gly	Ile	Ala	Tyr	Lys	Val	Asn	Ile
					85				90				95		
Leu	Met	Ser	Gly	Lys	Lys	Thr	Phe	Ser	Leu	Ser	Pro	Thr	Val	Trp	Phe
					100				105			110			
Leu	Arg	Glu	Gly	Ser	Met	Phe	Val	Ala	Leu	Gly	Ala	Ser	Thr	Cys	Ser
					115				120			125			
Leu	Leu	Ala	Ile	Ala	Ile	Glu	Arg	His	Leu	Thr	Met	Ile	Lys	Met	Arg
					130				135			140			
Pro	Tyr	Asp	Ala	Asn	Lys	Arg	His	Arg	Val	Phe	Leu	Leu	Ile	Gly	Met
					145				150			155			160
Cys	Trp	Leu	Ile	Ala	Phe	Thr	Leu	Gly	Ala	Leu	Pro	Ile	Leu	Gly	Trp
					165				170			175			
Asn	Cys	Leu	His	Asn	Leu	Pro	Asp	Cys	Ser	Thr	Ile	Leu	Pro	Leu	Tyr
					180				185			190			
Ser	Lys	Lys	Tyr	Ile	Ala	Phe	Cys	Ile	Ser	Ile	Phe	Thr	Ala	Ile	Leu
					195				200			205			
Val	Thr	Ile	Val	Ile	Leu	Tyr	Ala	Arg	Ile	Tyr	Phe	Leu	Val	Lys	Ser
					210				215			220			
Ser	Ser	Arg	Lys	Val	Ala	Asn	His	Asn	Asn	Ser	Glu	Arg	Ser	Met	Ala
					225				230			235			240
Leu	Leu	Arg	Thr	Val	Val	Ile	Val	Val	Ser	Val	Phe	Ile	Ala	Cys	Trp
					245				250			255			
Ser	Pro	Leu	Phe	Ile	Leu	Phe	Leu	Ile	Asp	Val	Ala	Cys	Arg	Val	Gln
					260				265			270			
Ala	Cys	Pro	Ile	Leu	Phe	Lys	Ala	Gln	Trp	Phe	Ile	Val	Leu	Ala	Val
					275				280			285			
Leu	Asn	Ser	Ala	Met	Asn	Pro	Val	Ile	Tyr	Thr	Leu	Ala	Ser	Lys	Glu
					290				295			300			

Met Arg Arg Ala Phe Phe Arg Leu Val Cys Asn Cys Leu Val Arg Gly
305 310 315 320
Arg Gly Ala Arg Ala Ser Pro Ile Gln Pro Ala Leu Asp Pro Ser Arg
325 330 335
Ser Lys Ser Ser Ser Asn Asn Ser Ser His Ser Pro Lys Val Lys
340 345 350
Glu Asp Leu Pro His Thr Asp Pro Ser Ser Cys Ile Met Asp Lys Asn
355 360 365
Ala Ala Leu Gln Asn Gly Ile Phe Cys Asn
370 375

<210> 3

<211> 391

<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: Chimeric Edg receptor

<400> 3

Met Gly Pro Thr Ser Val Pro Leu Val Lys Ala His Arg Ser Ser Val
1 5 10 15
Ser Asp Tyr Val Asn Tyr Asp Ile Ile Val Arg His Tyr Asn Tyr Thr
20 25 30
Gly Lys Leu Asn Ile Ser Ala Asp Lys Glu Asn Ser Ile Lys Leu Thr
35 40 45
Ser Val Val Phe Ile Leu Ile Cys Cys Phe Ile Ile Leu Glu Asn Ile
50 55 60
Phe Val Leu Leu Thr Ile Trp Lys Thr Lys Lys Phe His Arg Pro Met
65 70 75 80
Tyr Tyr Phe Ile Gly Asn Leu Ala Leu Ser Asp Leu Leu Ala Gly Val
85 90 95
Ala Tyr Thr Ala Asn Leu Leu Ser Gly Ala Thr Thr Tyr Lys Leu
100 105 110
Thr Pro Ala Gln Trp Phe Leu Arg Glu Gly Ser Met Phe Val Ala Leu
115 120 125
Ser Ala Ser Val Phe Ser Leu Leu Ala Ile Ala Ile Glu Arg Tyr Ile
130 135 140
Thr Met Leu Lys Met Lys Leu His Asn Gly Ser Asn Asn Phe Arg Leu
145 150 155 160
Phe Leu Leu Ile Ser Ala Cys Trp Val Ile Ser Leu Ile Leu Gly Gly
165 170 175
Leu Pro Ile Met Gly Trp Asn Cys Ile Ser Ala Leu Ser Ser Cys Ser
180 185 190
Thr Val Leu Pro Leu Tyr His Lys His Tyr Ile Leu Phe Cys Thr Thr
195 200 205

Val Phe Thr Leu Leu Leu Ser Ile Val Ile Leu Tyr Cys Arg Ile
210 215 220
Tyr Ser Leu Val Arg Thr Arg Ser Arg Arg Leu Thr Phe Arg Lys Asn
225 230 235 240
Ile Ser Lys Ala Ser Arg Ser Ser Glu Lys Ser Leu Ala Leu Leu Lys
245 250 255
Thr Val Ile Ile Val Leu Ser Val Phe Ile Ala Cys Trp Ala Pro Leu
260 265 270
Phe Ile Leu Leu Leu Asp Val Gly Cys Lys Val Lys Thr Cys Asp
275 280 285
Ile Leu Phe Arg Ala Glu Tyr Phe Leu Val Leu Ala Val Leu Asn Ser
290 295 300

Gly Thr Asn Pro Ile Ile Tyr Thr Leu Thr Ser Lys Glu Met Arg Arg
305 310 315 320
Ala Phe Phe Arg Leu Val Cys Asn Cys Leu Val Arg Gly Arg Gly Ala
325 330 335
Arg Ala Ser Pro Ile Gln Pro Ala Leu Asp Pro Ser Arg Ser Lys Ser
340 345 350
Ser Ser Ser Asn Asn Ser Ser His Ser Pro Lys Val Lys Glu Asp Leu
355 360 365
Pro His Thr Asp Pro Ser Ser Cys Ile Met Asp Lys Asn Ala Ala Leu
370 375 380
Gln Asn Gly Ile Phe Cys Asn
385 390

<210> 4

<211> 384

<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: Chimeric Edg receptor

<400> 4

Met Gly Pro Thr Ser Val Pro Leu Val Lys Ala His Arg Ser Ser Val
1 5 10 15
Ser Asp Tyr Val Asn Tyr Asp Ile Ile Val Arg His Tyr Asn Tyr Thr
20 25 30
Gly Lys Leu Asn Ile Ser Ala Asp Lys Glu Asn Ser Ile Lys Leu Thr
35 40 45
Ser Val Val Phe Ile Leu Ile Cys Cys Phe Ile Ile Leu Glu Asn Ile
50 55 60
Phe Val Leu Leu Thr Ile Trp Lys Thr Lys Lys Phe His Arg Pro Met
65 70 75 80
Tyr Tyr Phe Ile Gly Asn Leu Ala Leu Ser Asp Leu Leu Ala Gly Val
85 90 95
Ala Tyr Thr Ala Asn Leu Leu Ser Gly Ala Thr Thr Tyr Lys Leu
100 105 110
Thr Pro Ala Gln Trp Phe Leu Arg Glu Gly Ser Met Phe Val Ala Leu
115 120 125
Ser Ala Ser Val Phe Ser Leu Leu Ala Ile Ala Ile Glu Arg Tyr Ile
130 135 140
Thr Met Leu Lys Met Lys Leu His Asn Gly Ser Asn Asn Phe Arg Leu
145 150 155 160

Phe Leu Leu Ile Ser Ala Cys Trp Val Ile Ser Leu Ile Leu Gly Gly
165 170 175
Leu Pro Ile Met Gly Trp Asn Cys Ile Ser Ala Leu Ser Ser Cys Ser
180 185 190
Thr Val Leu Pro Leu Tyr His Lys His Tyr Ile Leu Phe Cys Thr Thr
195 200 205
Val Phe Thr Leu Leu Leu Ser Ile Val Ile Leu Tyr Cys Arg Ile
210 215 220
Tyr Ser Leu Val Arg Ser Ser Ser Arg Lys Val Ala Asn His Asn Asn
225 230 235 240
Ser Glu Arg Ser Met Ala Leu Leu Arg Thr Val Ile Ile Val Leu Ser
245 250 255
Val Phe Ile Ala Cys Trp Ala Pro Leu Phe Ile Leu Leu Leu Asp
260 265 270
Val Gly Cys Lys Val Lys Thr Cys Asp Ile Leu Phe Arg Ala Glu Tyr
275 280 285

Phe Leu Val Leu Ala Val Leu Asn Ser Gly Thr Asn Pro Ile Ile Tyr
290 295 300
Thr Leu Thr Ser Lys Glu Met Arg Arg Ala Phe Phe Arg Leu Val Cys
305 310 315 320
Asn Cys Leu Val Arg Gly Arg Gly Ala Arg Ala Ser Pro Ile Gln Pro
325 330 335
Ala Leu Asp Pro Ser Arg Ser Lys Ser Ser Ser Asn Asn Ser Ser
340 345 350
His Ser Pro Lys Val Lys Glu Asp Leu Pro His Thr Asp Pro Ser Ser
355 360 365
Cys Ile Met Asp Lys Asn Ala Ala Leu Gln Asn Gly Ile Phe Cys Asn
370 375 380

<210> 5

<211> 384

<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: Chimeric Edg receptor

<400> 5

Met Gly Pro Thr Ser Val Pro Leu Val Lys Ala His Arg Ser Ser Val
1 5 10 15
Ser Asp Tyr Val Asn Tyr Asp Ile Ile Val Arg His Tyr Asn Tyr Thr
20 25 30
Gly Lys Leu Asn Ile Ser Ala Asp Lys Glu Asn Ser Ile Lys Leu Thr
35 40 45
Ser Val Val Phe Ile Leu Ile Cys Cys Phe Ile Ile Leu Glu Asn Ile
50 55 60
Phe Val Leu Leu Thr Ile Trp Lys Thr Lys Lys Phe His Arg Pro Met
65 70 75 80
Tyr Tyr Phe Ile Gly Asn Leu Ala Leu Ser Asp Leu Leu Ala Gly Val
85 90 95
Ala Tyr Thr Ala Asn Leu Leu Ser Gly Ala Thr Thr Tyr Lys Leu
100 105 110
Thr Pro Ala Gln Trp Phe Leu Arg Glu Gly Ser Met Phe Val Ala Leu
115 120 125

Ser Ala Ser Val Phe Ser Leu Leu Ala Ile Ala Ile Glu Arg His Leu
130 135 140
Thr Met Ile Lys Met Arg Pro Tyr Asp Ala Asn Lys Arg His Arg Leu
145 150 155 160
Phe Leu Leu Ile Ser Ala Cys Trp Val Ile Ser Leu Ile Leu Gly Gly
165 170 175
Leu Pro Ile Met Gly Trp Asn Cys Ile Ser Ala Leu Ser Ser Cys Ser
180 185 190
Thr Val Leu Pro Leu Tyr His Lys His Tyr Ile Leu Phe Cys Thr Thr
195 200 205
Val Phe Thr Leu Leu Leu Ser Ile Val Ile Leu Tyr Cys Arg Ile
210 215 220
Tyr Ser Leu Val Arg Ser Ser Ser Arg Lys Val Ala Asn His Asn Asn
225 230 235 240
Ser Glu Arg Ser Met Ala Leu Leu Arg Thr Val Ile Ile Val Leu Ser
245 250 255
Val Phe Ile Ala Cys Trp Ala Pro Leu Phe Ile Leu Leu Leu Asp
260 265 270
Val Gly Cys Lys Val Lys Thr Cys Asp Ile Leu Phe Arg Ala Glu Tyr
275 280 285

Phe Leu Val Leu Ala Val Leu Asn Ser Gly Thr Asn Pro Ile Ile Tyr
290 295 300
Thr Leu Thr Ser Lys Glu Met Arg Arg Ala Phe Phe Arg Leu Val Cys
305 310 315 320
Asn Cys Leu Val Arg Gly Arg Gly Ala Arg Ala Ser Pro Ile Gln Pro
325 330 335
Ala Leu Asp Pro Ser Arg Ser Lys Ser Ser Ser Asn Asn Ser Ser
340 345 350
His Ser Pro Lys Val Lys Glu Asp Leu Pro His Thr Asp Pro Ser Ser
355 360 365
Cys Ile Met Asp Lys Asn Ala Ala Leu Gln Asn Gly Ile Phe Cys Asn
370 375 380

<210> 6

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 1 receptors

<400> 6

cccgcggtta acatggggcc caccagcgtc 30

<210> 7

<211> 27

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 1 receptors

<400> 7

cgcggatcct cagttgcaga agatccc 27

<210> 8

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 1 receptors

<400> 8

catttacact ctgaccagca aggagatgcg gcgg 34
<210> 9

<211> 34
<212> DNA
<213> Artificial
<220>
<223> Description of artificial sequence: Primer for generating chimeric
Edg 1 receptors
<400> 9

ccgcacatctcc ttgctggtca gagtgtaaat gatg 34
<210> 10

<211> 34
<212> DNA
<213> Artificial
<220>
<223> Description of artificial sequence: Primer for generating chimeric
Edg 1 receptors
<400> 10

gtctcctcgcatcgccatc gagcggcact tgac 34
<210> 11

<211> 33
<212> DNA
<213> Artificial
<220>
<223> Description of artificial sequence: Primer for generating chimeric
Edg 1 receptors
<400> 11

gtcaagtgcc gctcgatggc gatggcgagg aga 33
<210> 12

<211> 34
<212> DNA
<213> Artificial
<220>
<223> Description of artificial sequence: Primer for generating chimeric
Edg 1 receptors
<400> 12

cgccaacaag aggcaccgcc tcttcctgct aatc 34

<210> 13
<211> 34
<212> DNA
<213> Artificial
<220>
<223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors

<400> 13
gattagcagg aagaggcggt gcctcttgg 34
<210> 14
<211> 34
<212> DNA
<213> Artificial
<220>
<223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors

<400> 14
ctactccttg gtcaggtcca gcagccgtaa ggtg 34
<210> 15
<211> 34
<212> DNA
<213> Artificial
<220>
<223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors

<400> 15
caccttacgg ctgctggacc tgaccaagga gtag 34
<210> 16
<211> 35
<212> DNA
<213> Artificial
<220>
<223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors

<400> 16
cactgctgcg gaccgtgatt atcgtcctga gcgtc 35
<210> 17
<211> 35
<212> DNA
<213> Artificial
<220>
<223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors

<400> 17
gacgctcagg acgataatca cggtccgcag cagtg 35
<210> 18
<211> 30
<212> DNA
<213> Artificial
<220>
<223> Description of artificial sequence: Primer for generating chimeric Edg 5 receptors

<400> 18
cccgcggtta acatggcag cttgtactcg 30
<210> 19
<211> 27
<212> DNA
<213> Artificial
<220>
<223> Description of artificial sequence: Primer for generating chimeric Edg 5 receptors

<400> 19
cgccggatcct cagttgcaga agatccc 27
<210> 20
<211> 34
<212> DNA
<213> Artificial
<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 5 receptors

<400> 20

cgtcatctac acgtggcca gcaaggagat gcgg 34

<210> 21

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 5 receptors

<400> 21

ccgcatttcc ttgctggccc acgtgttagat gacg 34

<210> 22

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 5 receptors

<400> 22

catctactgc gtggtaagt ccagcagccg taag 34

<210> 23

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 5 receptors

<400> 23

cttacggctg ctggacttga ccacgcagta gatg 34

<210> 24

<211> 35

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 5 receptors

<400> 24

cactgctgcg gaccgtgacc atcgtgctag gcgtc 35

<210> 25

<211> 35

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 5 receptors

<400> 25

gacgccttagc acgatggtca cggtccgcag cagtg 35

<210> 26

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 8 receptors

<400> 26

cccgcggtta acatggagtc ggggctgctg 30

<210> 27

<211> 27

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 8 receptors

<400> 27

cgcggatcct cagtcctgtt ggttggg 27

<210> 28

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 8 receptors

<400> 28

ccatcatcta cacgctccga gatgctgaga tgcg 34

<210> 29

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric
Edg 8 receptors

<400> 29

cgcacatctcag catctcgag cgtgttagatg atgg 34

<210> 30

<211> 364

<212> PRT

<213> Homo sapiens

<400> 30

Met Ala Ala Ile Ser Thr Ser Ile Pro Val Ile Ser Gln Pro Gln Phe
1 5 10 15

Thr Ala Met Asn Glu Pro Gln Cys Phe Tyr Asn Glu Ser Ile Ala Phe
20 25 30

Phe Tyr Asn Arg Ser Gly Lys His Leu Ala Thr Glu Trp Asn Thr Val
35 40 45

Ser Lys Leu Val Met Gly Leu Gly Ile Thr Val Cys Ile Phe Ile Met
50 55 60

Leu Ala Asn Leu Leu Val Met Val Ala Ile Tyr Val Asn Arg Arg Phe
65 70 75 80

His Phe Pro Ile Tyr Tyr Leu Met Ala Asn Leu Ala Ala Asp Phe
85 90 95

Phe Ala Gly Leu Ala Tyr Phe Tyr Leu Met Phe Asn Thr Gly Pro Asn
100 105 110

Thr Arg Arg Leu Thr Val Ser Thr Trp Leu Leu Arg Gln Gly Leu Ile
115 120 125

Asp Thr Ser Leu Thr Ala Ser Val Ala Asn Leu Leu Ala Ile Ala Ile
130 135 140

Glu Arg His Ile Thr Val Phe Arg Met Gln Leu His Thr Arg Met Ser
145 150 155 160

Asn Arg Arg Val Val Val Val Ile Val Val Ile Trp Thr Met Ala Ile
165 170 175

Val Met Gly Ala Ile Pro Ser Val Gly Trp Asn Cys Ile Cys Asp Ile
180 185 190

Glu Asn Cys Ser Asn Met Ala Pro Leu Tyr Ser Asp Ser Tyr Leu Val
195 200 205

Phe Trp Ala Ile Phe Asn Leu Val Thr Phe Val Val Met Val Val Leu
 210 215 220
 Tyr Ala His Ile Phe Gly Tyr Val Arg Gln Arg Thr Met Arg Met Ser
 225 230 235 240
 Arg His Ser Ser Gly Pro Arg Arg Asn Arg Asp Thr Met Met Ser Leu
 245 250 255
 Leu Lys Thr Val Val Ile Val Leu Gly Ala Phe Ile Ile Cys Trp Thr
 260 265 270
 Pro Gly Leu Val Leu Leu Leu Asp Val Cys Cys Pro Gln Cys Asp
 275 280 285
 Val Leu Ala Tyr Glu Lys Phe Phe Leu Leu Ala Glu Phe Asn Ser
 290 295 300
 Ala Met Asn Pro Ile Ile Tyr Ser Tyr Arg Asp Lys Glu Met Ser Ala
 305 310 315 320
 Thr Phe Arg Gln Ile Leu Cys Cys Gln Arg Ser Glu Asn Pro Thr Gly
 325 330 335
 Pro Thr Glu Gly Ser Asp Arg Ser Ala Ser Ser Leu Asn His Thr Ile
 340 345 350
 Leu Ala Gly Val His Ser Asn Asp His Ser Val Val
 355 360

<210> 31

<211> 351

<212> PRT

<213> Homo sapiens

<400> 31

Met Val Ile Met Gly Gln Cys Tyr Tyr Asn Glu Thr Ile Gly Phe Phe
 1 5 10 15
 Tyr Asn Asn Ser Gly Lys Glu Leu Ser Ser His Trp Arg Pro Lys Asp
 20 25 30
 Val Val Val Ala Leu Gly Leu Thr Val Ser Val Leu Val Leu Leu
 35 40 45
 Thr Asn Leu Leu Val Ile Ala Ala Ile Ala Ser Asn Arg Arg Phe His
 50 55 60
 Gln Pro Ile Tyr Tyr Leu Leu Gly Asn Leu Ala Ala Ala Asp Leu Phe
 65 70 75 80
 Ala Gly Val Ala Tyr Leu Phe Leu Met Phe His Thr Gly Pro Arg Thr
 85 90 95
 Ala Arg Leu Ser Leu Glu Gly Trp Phe Leu Arg Gln Gly Leu Leu Asp
 100 105 110
 Thr Ser Leu Thr Ala Ser Val Ala Thr Leu Leu Ala Ile Ala Val Glu
 115 120 125
 Arg His Arg Ser Val Met Ala Val Gln Leu His Ser Arg Leu Pro Arg
 130 135 140
 Gly Arg Val Val Met Leu Ile Val Gly Val Trp Val Ala Ala Leu Gly
 145 150 155 160
 Leu Gly Leu Leu Pro Ala His Ser Trp His Cys Leu Cys Ala Leu Asp
 165 170 175
 Arg Cys Ser Arg Met Ala Pro Leu Leu Ser Arg Ser Tyr Leu Ala Val
 180 185 190
 Trp Ala Leu Ser Ser Leu Leu Val Phe Leu Leu Met Val Ala Val Tyr
 195 200 205
 Thr Arg Ile Phe Phe Tyr Val Arg Arg Arg Val Gln Arg Met Ala Glu
 210 215 220
 His Val Ser Cys His Pro Arg Tyr Arg Glu Thr Thr Leu Ser Leu Val
 225 230 235 240
 Lys Thr Val Val Ile Ile Leu Gly Ala Phe Val Val Cys Trp Thr Pro
 245 250 255
 Gly Gln Val Val Leu Leu Leu Asp Gly Leu Gly Cys Glu Ser Cys Asn
 260 265 270

Val	Leu	Ala	Val	Glu	Lys	Tyr	Phe	Leu	Leu	Leu	Ala	Glu	Ala	Asn	Ser
275							280					285			
Leu	Val	Asn	Ala	Ala	Val	Tyr	Ser	Cys	Arg	Asp	Ala	Glu	Met	Arg	Arg
290						295					300				
Thr	Phe	Arg	Arg	Leu	Leu	Cys	Cys	Ala	Cys	Leu	Arg	Gln	Ser	Thr	Arg
305						310				315				320	
Glu	Ser	Val	His	Tyr	Thr	Ser	Ser	Ala	Gln	Gly	Gly	Ala	Ser	Thr	Arg
						325			330				335		
Ile	Met	Leu	Pro	Glu	Asn	Gly	His	Pro	Leu	Met	Asp	Ser	Thr	Leu	
								345					350		

<210> 32

<211> 382

<212> PRT

<213> Homo sapiens

<400> 32

Met	Val	Ile	Met	Gly	Gln	Cys	Tyr	Tyr	Asn	Glu	Thr	Ile	Gly	Phe	Phe
1				5					10				15		
Tyr	Asn	Asn	Ser	Gly	Lys	Glu	Leu	Ser	Ser	His	Trp	Arg	Pro	Lys	Asp
							20		25			30			
Val	Val	Val	Val	Ala	Leu	Gly	Leu	Thr	Val	Ser	Val	Leu	Val	Leu	Leu
						35			40			45			
Thr	Asn	Leu	Leu	Val	Ile	Ala	Ala	Ile	Ala	Ser	Asn	Arg	Arg	Phe	His
						50			55			60			
Gln	Pro	Ile	Tyr	Tyr	Leu	Leu	Gly	Asn	Leu	Ala	Ala	Asp	Leu	Phe	
						65			70			75			80
Ala	Gly	Val	Ala	Tyr	Leu	Phe	Leu	Met	Phe	His	Thr	Gly	Pro	Arg	Thr
						85				90			95		
Ala	Arg	Leu	Ser	Leu	Glu	Gly	Trp	Phe	Leu	Arg	Gln	Gly	Leu	Leu	Asp
						100			105			110			
Thr	Ser	Leu	Thr	Ala	Ser	Val	Ala	Thr	Leu	Leu	Ala	Ile	Ala	Val	Glu
						115			120			125			
Arg	His	Arg	Ser	Val	Met	Ala	Val	Gln	Leu	His	Ser	Arg	Leu	Pro	Arg
						130			135			140			
Gly	Arg	Val	Val	Met	Leu	Ile	Val	Gly	Val	Trp	Val	Ala	Ala	Leu	Gly
						145			150			155			160
Leu	Gly	Leu	Leu	Pro	Ala	His	Ser	Trp	His	Cys	Leu	Cys	Ala	Leu	Asp
						165				170			175		
Arg	Cys	Ser	Arg	Met	Ala	Pro	Leu	Leu	Ser	Arg	Ser	Tyr	Leu	Ala	Val
						180			185			190			
Trp	Ala	Leu	Ser	Ser	Leu	Leu	Val	Phe	Leu	Leu	Met	Val	Ala	Val	Tyr
						195			200			205			
Thr	Arg	Ile	Phe	Phe	Tyr	Val	Arg	Arg	Arg	Val	Gln	Arg	Met	Ala	Glu
						210			215			220			
His	Val	Ser	Cys	His	Pro	Arg	Tyr	Arg	Glu	Thr	Thr	Leu	Ser	Leu	Val
						225			230			235			240
Lys	Thr	Val	Val	Ile	Ile	Leu	Gly	Ala	Phe	Val	Val	Cys	Trp	Thr	Pro
						245				250			255		
Gly	Gln	Val	Val	Leu	Leu	Leu	Asp	Gly	Leu	Gly	Cys	Glu	Ser	Cys	Asn
						260			265			270			
Val	Leu	Ala	Val	Glu	Lys	Tyr	Phe	Leu	Leu	Leu	Ala	Glu	Ala	Asn	Ser
						275			280			285			
Leu	Val	Asn	Ala	Ala	Val	Tyr	Ser	Cys	Arg	Asp	Ala	Glu	Met	Arg	Arg
						290			295			300			
Thr	Phe	Arg	Arg	Leu	Leu	Cys	Cys	Ala	Cys	Leu	Arg	Gln	Ser	Thr	Arg
						305			310			315			320
Glu	Ser	Val	His	Tyr	Thr	Ser	Ser	Ala	Gln	Gly	Gly	Ala	Ser	Thr	Arg
						325				330			335		
Ile	Met	Leu	Pro	Glu	Asn	Gly	His	Pro	Leu	Met	Thr	Pro	Pro	Phe	Ser
						340			345			350			

Tyr Leu Glu Leu Gln Arg Tyr Ala Ala Ser Asn Lys Ser Thr Ala Pro
355 360 365
Asp Asp Leu Trp Val Leu Leu Ala Gln Pro Asn Gln Gln Asp
370 375 380

<210> 33

<211> 353

<212> PRT

<213> Homo sapiens

<400> 33

Met Gly Ser Leu Tyr Ser Glu Tyr Leu Asn Pro Asn Lys Val Gln Glu
1 5 10 15
His Tyr Asn Tyr Thr Lys Glu Thr Leu Glu Thr Gln Glu Thr Thr Ser
20 25 30
Arg Gln Val Ala Ser Ala Phe Ile Val Ile Leu Cys Cys Ala Ile Val
35 40 45
Val Glu Asn Leu Leu Val Leu Ile Ala Val Ala Arg Asn Ser Lys Phe
50 55 60
His Ser Ala Met Tyr Leu Phe Leu Gly Asn Leu Ala Ala Ser Asp Leu
65 70 75 80
Leu Ala Gly Val Ala Phe Val Ala Asn Thr Leu Leu Ser Gly Ser Val
85 90 95
Thr Leu Arg Leu Thr Pro Val Gln Trp Phe Ala Arg Glu Gly Ser Ala
100 105 110
Ser Ile Thr Leu Ser Ala Ser Val Phe Ser Leu Leu Ala Ile Ala Ile
115 120 125
Glu Arg His Val Ala Ile Ala Lys Val Lys Leu Tyr Gly Ser Asp Lys
130 135 140
Ser Cys Arg Met Leu Leu Leu Ile Gly Ala Ser Trp Leu Ile Ser Leu
145 150 155 160
Val Leu Gly Gly Leu Pro Ile Leu Gly Trp Asn Cys Leu Gly His Leu
165 170 175
Glu Ala Cys Ser Thr Val Leu Pro Leu Tyr Ala Lys His Tyr Val Leu
180 185 190
Cys Val Val Thr Ile Phe Ser Ile Ile Leu Leu Ala Ile Val Ala Leu
195 200 205
Tyr Val Arg Ile Tyr Cys Val Val Arg Ser Ser His Ala Asp Met Ala
210 215 220
Ala Pro Gln Thr Leu Ala Leu Lys Thr Val Thr Ile Val Leu Gly
225 230 235 240
Val Phe Ile Val Cys Trp Leu Pro Ala Phe Ser Ile Leu Leu Leu Asp
245 250 255
Tyr Ala Cys Pro Val His Ser Cys Pro Ile Leu Tyr Lys Ala His Tyr
260 265 270
Phe Phe Ala Val Ser Thr Leu Asn Ser Leu Leu Asn Pro Val Ile Tyr
275 280 285
Thr Trp Arg Ser Arg Asp Leu Arg Arg Glu Val Leu Arg Pro Leu Gln
290 295 300
Cys Trp Arg Pro Gly Val Gly Val Gln Gly Arg Arg Arg Val Gly Thr
305 310 315 320
Pro Gly His His Leu Leu Pro Leu Arg Ser Ser Ser Ser Leu Glu Arg
325 330 335
Gly Met His Met Pro Thr Ser Pro Thr Phe Leu Glu Gly Asn Thr Val
340 345 350
Val

<210> 34

<211> 384

<212> PRT

<213> Homo sapiens

<400> 34

Met Asn Ala Thr Gly Thr Pro Val Ala Pro Glu Ser Cys Gln Gln Leu
1 5 10 15
Ala Ala Gly Gly His Ser Arg Leu Ile Val Leu His Tyr Asn His Ser
20 25 30
Gly Arg Leu Ala Gly Arg Gly Gly Pro Glu Asp Gly Gly Leu Gly Ala
35 40 45
Leu Arg Gly Leu Ser Val Ala Ala Ser Cys Leu Val Val Leu Glu Asn
50 55 60
Leu Leu Val Leu Ala Ala Ile Thr Ser His Met Arg Ser Arg Arg Trp
65 70 75 80
Val Tyr Tyr Cys Leu Val Asn Ile Thr Leu Ser Asp Leu Leu Thr Gly
85 90 95
Ala Ala Tyr Leu Ala Asn Val Leu Leu Ser Gly Ala Arg Thr Phe Arg
100 105 110
Leu Ala Pro Ala Gln Trp Phe Leu Arg Glu Gly Leu Leu Phe Thr Ala
115 120 125
Leu Ala Ala Ser Thr Phe Ser Leu Leu Phe Thr Ala Gly Glu Arg Phe
130 135 140
Ala Thr Met Val Arg Pro Val Ala Glu Ser Gly Ala Thr Lys Thr Ser
145 150 155 160
Arg Val Tyr Gly Phe Ile Gly Leu Cys Trp Leu Leu Ala Ala Leu Leu
165 170 175
Gly Met Leu Pro Leu Leu Gly Trp Asn Cys Leu Cys Ala Phe Asp Arg
180 185 190
Cys Ser Ser Leu Leu Pro Leu Tyr Ser Lys Arg Tyr Ile Leu Phe Cys
195 200 205
Leu Val Ile Phe Ala Gly Val Leu Ala Thr Ile Met Gly Leu Tyr Gly
210 215 220
Ala Ile Phe Arg Leu Val Gln Ala Ser Gly Gln Lys Ala Pro Arg Pro
225 230 235 240
Ala Ala Arg Arg Lys Ala Arg Arg Leu Leu Lys Thr Val Leu Met Ile
245 250 255
Leu Leu Ala Phe Leu Val Cys Trp Gly Pro Leu Phe Gly Leu Leu Leu
260 265 270
Ala Asp Val Phe Gly Ser Asn Leu Trp Ala Gln Glu Tyr Leu Arg Gly
275 280 285
Met Asp Trp Ile Leu Ala Leu Ala Val Leu Asn Ser Ala Val Asn Pro
290 295 300
Ile Ile Tyr Ser Phe Arg Ser Arg Glu Val Cys Arg Ala Val Leu Ser
305 310 315 320
Phe Leu Cys Cys Gly Cys Leu Arg Leu Gly Met Arg Gly Pro Gly Asp
325 330 335
Cys Leu Ala Arg Ala Val Glu Ala His Ser Gly Ala Ser Thr Thr Asp
340 345 350
Ser Ser Leu Arg Pro Arg Asp Ser Phe Arg Gly Ser Arg Ser Leu Ser
355 360 365
Phe Arg Met Arg Glu Pro Leu Ser Ser Ile Ser Ser Val Arg Ser Ile
370 375 380

<210> 35

<211> 353

<212> PRT

<213> Homo sapiens

<400> 35

Met	Asn	Glu	Cys	His	Tyr	Asp	Lys	His	Met	Asp	Phe	Phe	Tyr	Asn	Arg
1		5						10						15	
Ser	Asn	Thr	Asp	Thr	Val	Asp	Asp	Trp	Thr	Gly	Thr	Lys	Leu	Val	Ile
		20						25					30		
Val	Leu	Cys	Val	Gly	Thr	Phe	Phe	Cys	Leu	Phe	Ile	Phe	Phe	Ser	Asn
	35					40					45				
Ser	Leu	Val	Ile	Ala	Ala	Val	Ile	Lys	Asn	Arg	Lys	Phe	His	Phe	Pro
	50					55				60					
Phe	Tyr	Tyr	Leu	Leu	Ala	Asn	Leu	Ala	Ala	Asp	Phe	Phe	Ala	Gly	
	65					70			75				80		
Ile	Ala	Tyr	Val	Phe	Leu	Met	Phe	Asn	Thr	Gly	Pro	Val	Ser	Lys	Thr
		85						90					95		
Leu	Thr	Val	Asn	Arg	Trp	Phe	Leu	Arg	Gln	Gly	Leu	Leu	Asp	Ser	Ser
	100						105					110			
Leu	Thr	Ala	Ser	Leu	Thr	Asn	Leu	Leu	Val	Ile	Ala	Val	Glu	Arg	His
	115					120				125					
Met	Ser	Ile	Met	Arg	Met	Arg	Val	His	Ser	Asn	Leu	Thr	Lys	Lys	Arg
	130					135				140					
Val	Thr	Leu	Leu	Ile	Leu	Leu	Val	Trp	Ala	Ile	Ala	Ile	Phe	Met	Gly
	145					150				155			160		
Ala	Val	Pro	Thr	Leu	Gly	Trp	Asn	Cys	Leu	Cys	Asn	Ile	Ser	Ala	Cys
		165					170				175				
Ser	Ser	Leu	Ala	Pro	Ile	Tyr	Ser	Arg	Ser	Tyr	Leu	Val	Phe	Trp	Thr
		180				185				190					
Val	Ser	Asn	Leu	Met	Ala	Phe	Leu	Ile	Met	Val	Val	Val	Tyr	Leu	Arg
		195					200			205					

Ile	Tyr	Val	Tyr	Val	Lys	Arg	Lys	Thr	Asn	Val	Leu	Ser	Pro	His	Thr
	210				215				220						
Ser	Gly	Ser	Ile	Ser	Arg	Arg	Arg	Thr	Pro	Met	Lys	Leu	Met	Lys	Thr
	225				230				235				240		
Val	Met	Thr	Val	Leu	Gly	Ala	Phe	Val	Val	Cys	Trp	Thr	Pro	Gly	Leu
		245						250				255			
Val	Val	Leu	Leu	Leu	Asp	Gly	Leu	Asn	Cys	Arg	Gln	Cys	Gly	Val	Gln
		260					265				270				
His	Val	Lys	Arg	Trp	Phe	Leu	Leu	Leu	Ala	Leu	Leu	Asn	Ser	Val	Val
		275					280				285				
Asn	Pro	Ile	Ile	Tyr	Ser	Tyr	Lys	Asp	Glu	Asp	Met	Tyr	Gly	Thr	Met
	290					295				300					
Lys	Lys	Met	Ile	Cys	Cys	Phe	Ser	Gln	Glu	Asn	Pro	Glu	Arg	Arg	Pro
	305					310			315			320			
Ser	Arg	Ile	Pro	Ser	Thr	Val	Leu	Ser	Arg	Ser	Asp	Thr	Gly	Ser	Gln
		325					330				335				
Tyr	Ile	Glu	Asp	Ser	Ile	Ser	Gln	Gly	Ala	Val	Cys	Asn	Lys	Ser	Thr
		340					345				350				

Ser

<210> 36

<211> 398

<212> PRT

<213> Homo sapiens

<400> 36

Met	Glu	Ser	Gly	Leu	Leu	Arg	Pro	Ala	Pro	Val	Ser	Glu	Val	Ile	Val
1		5				10						15			
Leu	His	Tyr	Asn	Tyr	Thr	Gly	Lys	Leu	Arg	Gly	Ala	Arg	Tyr	Gln	Pro
		20				25			30						
Gly	Ala	Gly	Leu	Arg	Ala	Asp	Ala	Val	Val	Cys	Leu	Ala	Val	Cys	Ala
		35				40			45						
Phe	Ile	Val	Leu	Glu	Asn	Leu	Ala	Val	Leu	Leu	Val	Leu	Gly	Arg	His
		50				55			60						

Pro Arg Phe His Ala Pro Met Phe Leu Leu Leu Gly Ser Leu Thr Leu
 65 70 75 80
 Ser Asp Leu Leu Ala Gly Ala Ala Tyr Ala Ala Asn Ile Leu Leu Ser
 85 90 95
 Gly Pro Leu Thr Leu Lys Leu Ser Pro Ala Leu Trp Phe Ala Arg Glu
 100 105 110
 Gly Gly Val Phe Val Ala Leu Thr Ala Ser Val Leu Ser Leu Leu Ala
 115 120 125
 Ile Ala Leu Glu Arg Ser Leu Thr Met Ala Arg Arg Gly Pro Ala Pro
 130 135 140
 Val Ser Ser Arg Gly Arg Thr Leu Ala Met Ala Ala Ala Ala Trp Gly
 145 150 155 160
 Val Ser Leu Leu Leu Gly Leu Leu Pro Ala Leu Gly Trp Asn Cys Leu
 165 170 175
 Gly Arg Leu Asp Ala Cys Ser Thr Val Leu Pro Leu Tyr Ala Lys Ala
 180 185 190
 Tyr Val Leu Phe Cys Val Leu Ala Phe Val Gly Ile Leu Ala Ala Ile
 195 200 205
 Cys Ala Leu Tyr Ala Arg Ile Tyr Cys Gln Val Arg Ala Asn Ala Arg
 210 215 220
 Arg Leu Pro Ala Arg Pro Gly Thr Ala Gly Thr Thr Ser Thr Arg Ala
 225 230 235 240
 Arg Arg Lys Pro Arg Ser Leu Ala Leu Leu Arg Thr Leu Ser Val Val
 245 250 255
 Leu Leu Ala Phe Val Ala Cys Trp Gly Pro Leu Phe Leu Leu Leu Leu
 260 265 270

Leu Asp Val Ala Cys Pro Ala Arg Thr Cys Pro Val Leu Leu Gln Ala
 275 280 285
 Asp Pro Phe Leu Gly Leu Ala Met Ala Asn Ser Leu Leu Asn Pro Ile
 290 295 300
 Ile Tyr Thr Leu Thr Asn Arg Asp Leu Arg His Ala Leu Leu Arg Leu
 305 310 315 320
 Val Cys Cys Gly Arg His Ser Cys Gly Arg Asp Pro Ser Gly Ser Gln
 325 330 335
 Gln Ser Ala Ser Ala Ala Glu Ala Ser Gly Gly Leu Arg Arg Cys Leu
 340 345 350
 Pro Pro Gly Leu Asp Gly Ser Phe Ser Gly Ser Glu Arg Ser Ser Pro
 355 360 365
 Gln Arg Asp Gly Leu Asp Thr Ser Gly Ser Thr Gly Ser Pro Gly Ala
 370 375 380
 Pro Thr Ala Ala Arg Thr Leu Val Ser Glu Pro Ala Ala Asp
 385 390 395

<210> 37

<211> 372

<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: Chimeric Edg receptor

<400> 37

Met Gly Ser Leu Tyr Ser Glu Tyr Leu Asn Pro Asn Lys Val Gln Glu
 1 5 10 15
 His Tyr Asn Tyr Thr Lys Glu Thr Leu Glu Thr Gln Glu Thr Thr Ser
 20 25 30
 Arg Gln Val Ala Ser Ala Phe Ile Val Ile Leu Cys Cys Ala Ile Val
 35 40 45
 Val Glu Asn Leu Leu Val Leu Ile Ala Val Ala Arg Asn Ser Lys Phe
 50 55 60

His	Ser	Ala	Met	Tyr	Leu	Phe	Leu	Gly	Asn	Leu	Ala	Ala	Ser	Asp	Leu
65					70					75					80
Leu	Ala	Gly	Val	Ala	Phe	Val	Ala	Asn	Thr	Leu	Leu	Ser	Gly	Ser	Val
						85				90					95
Thr	Leu	Arg	Leu	Thr	Pro	Val	Gln	Trp	Phe	Ala	Arg	Glu	Gly	Ser	Ala
							100		105						110
Ser	Ile	Thr	Leu	Ser	Ala	Ser	Val	Phe	Ser	Leu	Leu	Ala	Ile	Ala	Ile
							115		120						125
Glu	Arg	His	Val	Ala	Ile	Ala	Lys	Val	Lys	Leu	Tyr	Gly	Ser	Asp	Lys
							130		135		140				
Ser	Cys	Arg	Met	Leu	Leu	Ile	Gly	Ala	Ser	Trp	Leu	Ile	Ser	Leu	
							145		150		155				160
Val	Leu	Gly	Gly	Leu	Pro	Ile	Leu	Gly	Trp	Asn	Cys	Leu	Gly	His	Leu
							165			170					175
Glu	Ala	Cys	Ser	Thr	Val	Leu	Pro	Leu	Tyr	Ala	Lys	His	Tyr	Val	Leu
							180		185						190
Cys	Val	Val	Thr	Ile	Phe	Ser	Ile	Ile	Leu	Leu	Ala	Ile	Val	Ala	Leu
							195		200						205
Tyr	Val	Arg	Ile	Tyr	Cys	Val	Val	Lys	Ser	Ser	Ser	Arg	Lys	Val	Ala
							210		215						220
Asn	His	Asn	Asn	Ser	Glu	Arg	Ser	Met	Ala	Leu	Leu	Arg	Thr	Val	Thr
							225		230		235				240
Ile	Val	Leu	Gly	Val	Phe	Ile	Val	Cys	Trp	Leu	Pro	Ala	Phe	Ser	Ile
							245			250					255
Leu	Leu	Leu	Asp	Tyr	Ala	Cys	Pro	Val	His	Ser	Cys	Pro	Ile	Leu	Tyr
							260		265						270

Lys	Ala	His	Tyr	Phe	Phe	Ala	Val	Ser	Thr	Leu	Asn	Ser	Leu	Leu	Asn
							275		280						285
Pro	Val	Ile	Tyr	Thr	Trp	Ala	Ser	Lys	Glu	Met	Arg	Arg	Ala	Phe	Phe
							290		295						300
Arg	Leu	Val	Cys	Asn	Cys	Leu	Val	Arg	Gly	Arg	Gly	Ala	Arg	Ala	Ser
							305		310		315				320
Pro	Ile	Gln	Pro	Ala	Leu	Asp	Pro	Ser	Arg	Ser	Lys	Ser	Ser	Ser	
							325			330					335
Asn	Asn	Ser	Ser	His	Ser	Pro	Lys	Val	Lys	Glu	Asp	Leu	Pro	His	Thr
							340		345						350
Asp	Pro	Ser	Ser	Cys	Ile	Met	Asp	Lys	Asn	Ala	Ala	Leu	Gln	Asn	Gly
							355		360						365
Ile	Phe	Cys	Asn												
															370

<210> 38

<211> 393

<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: Chimeric Edg receptor

<400> 38

Met	Glu	Ser	Gly	Leu	Leu	Arg	Pro	Ala	Pro	Val	Ser	Glu	Val	Ile	Val
1						5				10					15
Leu	His	Tyr	Asn	Tyr	Thr	Gly	Lys	Leu	Arg	Gly	Ala	Arg	Tyr	Gln	Pro
							20		25						30
Gly	Ala	Gly	Leu	Arg	Ala	Asp	Ala	Val	Val	Cys	Leu	Ala	Val	Cys	Ala
							35		40						45
Phe	Ile	Val	Leu	Glu	Asn	Leu	Ala	Val	Leu	Leu	Val	Leu	Gly	Arg	His
							50		55						60
Pro	Arg	Phe	His	Ala	Pro	Met	Phe	Leu	Leu	Leu	Gly	Ser	Leu	Thr	Leu
							65		70						80

Ser Asp Leu Leu Ala Gly Ala Ala Tyr Ala Ala Asn Ile Leu Leu Ser
85 90 95
Gly Pro Leu Thr Leu Lys Leu Ser Pro Ala Leu Trp Phe Ala Arg Glu
100 105 110
Gly Gly Val Phe Val Ala Leu Thr Ala Ser Val Leu Ser Leu Leu Ala
115 120 125
Ile Ala Leu Glu Arg Ser Leu Thr Met Ala Arg Arg Gly Pro Ala Pro
130 135 140
Val Ser Ser Arg Gly Arg Thr Leu Ala Met Ala Ala Ala Ala Trp Gly
145 150 155 160
Val Ser Leu Leu Leu Gly Leu Leu Pro Ala Leu Gly Trp Asn Cys Leu
165 170 175
Gly Arg Leu Asp Ala Cys Ser Thr Val Leu Pro Leu Tyr Ala Lys Ala
180 185 190
Tyr Val Leu Phe Cys Val Leu Ala Phe Val Gly Ile Leu Ala Ala Ile
195 200 205
Cys Ala Leu Tyr Ala Arg Ile Tyr Cys Gln Val Arg Ala Asn Ala Arg
210 215 220
Arg Leu Pro Ala Arg Pro Gly Thr Ala Gly Thr Thr Ser Thr Arg Ala
225 230 235 240
Arg Arg Lys Pro Arg Ser Leu Ala Leu Leu Arg Thr Leu Ser Val Val
245 250 255
Leu Leu Ala Phe Val Ala Cys Trp Gly Pro Leu Phe Leu Leu Leu Leu
260 265 270
Leu Asp Val Ala Cys Pro Ala Arg Thr Cys Pro Val Leu Leu Gln Ala
275 280 285

Asp Pro Phe Leu Gly Leu Ala Met Ala Asn Ser Leu Leu Asn Pro Ile
290 295 300
Ile Tyr Thr Leu Arg Asp Ala Glu Met Arg Arg Thr Phe Arg Arg Leu
305 310 315 320
Leu Cys Cys Ala Cys Leu Arg Gln Ser Thr Arg Glu Ser Val His Tyr
325 330 335
Thr Ser Ser Ala Gln Gly Gly Ala Ser Thr Arg Ile Met Leu Pro Glu
340 345 350
Asn Gly His Pro Leu Met Thr Pro Pro Phe Ser Tyr Leu Glu Leu Gln
355 360 365
Arg Tyr Ala Ala Ser Asn Lys Ser Thr Ala Pro Asp Asp Leu Trp Val
370 375 380
Leu Leu Ala Gln Pro Asn Gln Gln Asp
385 390